

=&gt; d his ful

FILE 'REGISTRY' ENTERED AT 11:25:51 ON 15 FEB 2005

L1 0 SEA ABB=ON BENZOTRIAZOLE/CN  
 E BENZOTRIAZOLE/CN  
 L2 1 SEA ABB=ON "BENZOTRIAZOL-5-OL, 4-NITRO-"/CN  
 L3 1496 SEA ABB=ON NR=6 AND NRS=4 AND N=1 AND O=6  
 L4 0 SEA ABB=ON L3 AND 333.415.18/RID  
 L5 3 SEA ABB=ON C40H38N10O6/MF  
 L6 1 SEA ABB=ON 726187-92-4/RN *RV for elected specie*

FILE 'HCAPLUS' ENTERED AT 11:31:21 ON 15 FEB 2005

L7 1 SEA ABB=ON L6 *1 hit in CAPLUS for elected specie*

FILE 'REGISTRY' ENTERED AT 11:32:04 ON 15 FEB 2005

L8 STR  
 L9 9 SEA SSS SAM L8  
 L10 453 SEA SSS FUL L8  
 L11 0 SEA ABB=ON L10 AND 333.415.18/RID  
 E BENZOPHENONE/CN  
 L12 1 SEA ABB=ON BENZOPHENONE/CN  
 L13 129 SEA ABB=ON L10 AND 46.150.18/RID  
 L14 STR L8  
 L15 6 SEA SSS SAM L14  
 L16 507 SEA SSS FUL L14  
 L17 0 SEA ABB=ON L16 AND 333.415.18/RID  
 L18 149 SEA ABB=ON L16 AND 46.150.18/RID

FILE 'HCAPLUS' ENTERED AT 11:51:38 ON 15 FEB 2005

L19 96 SEA ABB=ON L18  
 L20 2 SEA ABB=ON L19 AND (?BENZOTRIAZOL? OR ?BENZOPHENON?)

FILE 'REGISTRY' ENTERED AT 11:52:59 ON 15 FEB 2005

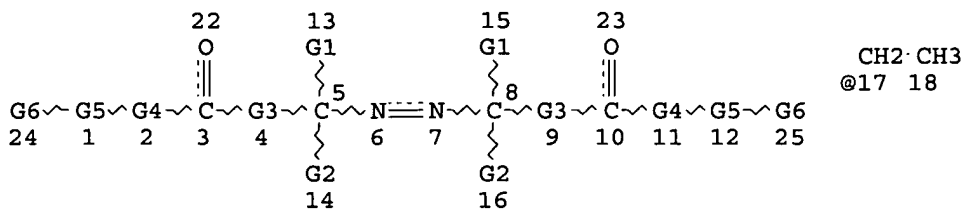
L21 STR L14  
 L22 0 SEA SSS SAM L21  
 L23 STR L21  
 L24 0 SEA SSS SAM L23  
 L25 1 SEA SSS FUL L23  
 L26 STR L21  
 L27 1 SEA SSS SAM L26  
 L28 95 SEA SSS FUL L26  
 L29 STR L26  
 L30 0 SEA SSS SAM L29  
 L31 1 SEA SSS FUL L29

FILE 'HCAPLUS' ENTERED AT 12:09:13 ON 15 FEB 2005

L32 74 SEA ABB=ON L28  
 L33 1 SEA ABB=ON L32 AND (?OPHTHAL? OR EYE? OR ?VISION?) (W) (?LENS?)  
 L34 6 SEA ABB=ON L32 AND (?ULTRAVIOLET? OR UV)  
 L35 6 SEA ABB=ON L33 OR L34  
 L36 1 SEA ABB=ON L32 AND (?ULTRAVIOLET? OR UV) (4A) ?LENS?  
 L37 6 SEA ABB=ON L35 OR L36  
 L38 7 SEA ABB=ON L20 OR L37  
 L39 1 SEA ABB=ON L25  
 L40 7 SEA ABB=ON L38 OR L39 *7 hits from CAPLUS - all done at L40*

=&gt; d que stat 120

L14 STR



CH2-CH2-CH3  
@19 20 21

VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C

VAR G6=C/O/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

L16 507 SEA FILE=REGISTRY SSS FUL L14

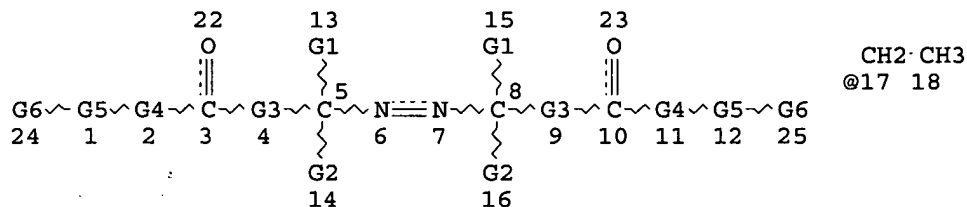
L18 149 SEA FILE=REGISTRY ABB=ON L16 AND 46.150.18/RID

L19 96 SEA FILE=HCAPLUS ABB=ON L18

L20 2 SEA FILE=HCAPLUS ABB=ON L19 AND (?BENZOTRIAZOL? OR ?BENZOPHENO  
N?)

=&gt; d que stat 138

L14 STR



CH2-CH2-CH3  
@19 20 21

VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C

VAR G6=C/O/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

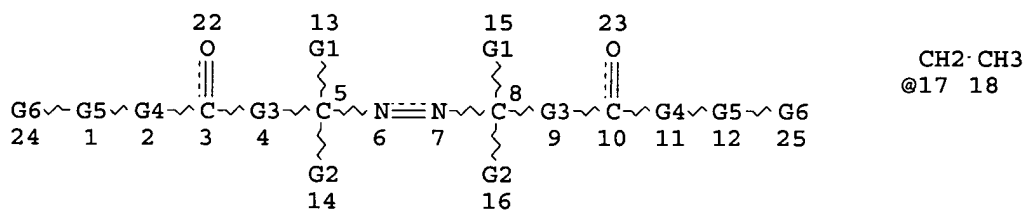
L16 507 SEA FILE=REGISTRY SSS FUL L14

L18 149 SEA FILE=REGISTRY ABB=ON L16 AND 46.150.18/RID

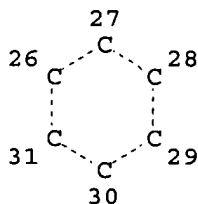
L19 96 SEA FILE=HCAPLUS ABB=ON L18

L20 2 SEA FILE=HCAPLUS ABB=ON L19 AND (?BENZOTRIAZOL? OR ?BENZOPHENO  
N?)

L26 STR



CH2-CH2-CH3  
@19 20 21



VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C  
VAR G6=C/O/N  
NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

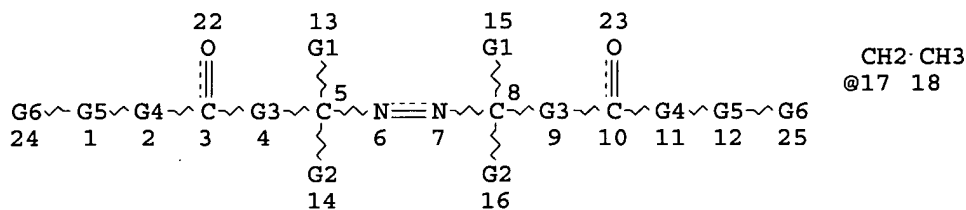
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RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

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L32	74	SEA FILE=HCAPLUS ABB=ON L28
L33	1	SEA FILE=HCAPLUS ABB=ON L32 AND (?OPHTHAL? OR EYE? OR ?VISION?) (W) (?LENS?)
L34	6	SEA FILE=HCAPLUS ABB=ON L32 AND (?ULTRAVIOLET? OR UV)
L35	6	SEA FILE=HCAPLUS ABB=ON L33 OR L34
L36	1	SEA FILE=HCAPLUS ABB=ON L32 AND (?ULTRAVIOLET? OR UV) (4A) ?LENS ?
L37	6	SEA FILE=HCAPLUS ABB=ON L35 OR L36
L38	7	SEA FILE=HCAPLUS ABB=ON L20 OR L37

=&gt; d que stat 140

L14 STR



CH2-CH2-CH3  
@19 20 21

VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C

VAR G6=C/O/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE

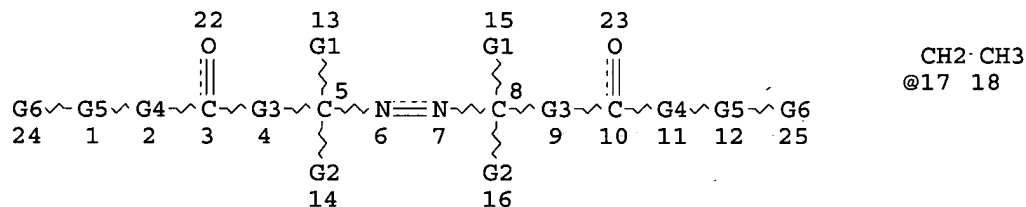
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L18 149 SEA FILE=REGISTRY ABB=ON L16 AND 46.150.18/RID

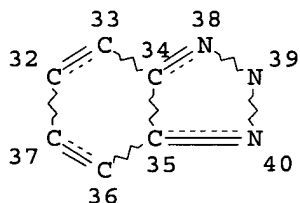
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L20 2 SEA FILE=HCAPLUS ABB=ON L19 AND (?BENZOTRIAZOL? OR ?BENZOPHENO  
N?)

L23 STR



CH2-CH2-CH3  
@19 20 21



VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C

VAR G6=C/O/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

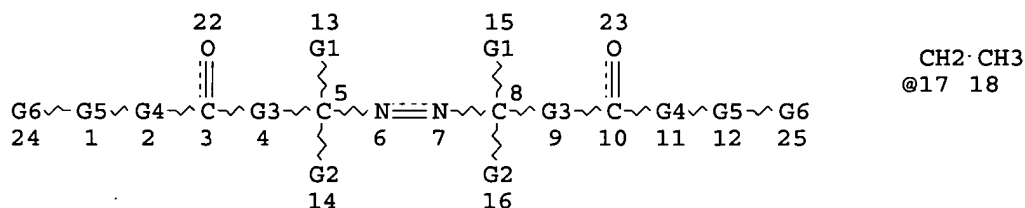
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NUMBER OF NODES IS 34

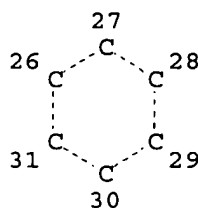
STEREO ATTRIBUTES: NONE

L25 1 SEA FILE=REGISTRY SSS FUL L23

L26 STR



CH2·CH2·CH3  
@19 20 21



VAR G1=CH3/17/19

VAR G2=C/S/N

REP G3=(0-10) CH2

VAR G4=O/N

REP G5=(0-11) C

VAR G6=C/O/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L28 95 SEA FILE=REGISTRY SSS FUL L26

L32 74 SEA FILE=HCAPLUS ABB=ON L28

L33 1 SEA FILE=HCAPLUS ABB=ON L32 AND (?OPHTHAL? OR EYE? OR  
?VISION?) (W) (?LENS?)

L34 6 SEA FILE=HCAPLUS ABB=ON L32 AND (?ULTRAVIOLET? OR UV)

L35 6 SEA FILE=HCAPLUS ABB=ON L33 OR L34

L36 1 SEA FILE=HCAPLUS ABB=ON L32 AND (?ULTRAVIOLET? OR UV) (4A)?LENS  
?

L37 6 SEA FILE=HCAPLUS ABB=ON L35 OR L36

L38 7 SEA FILE=HCAPLUS ABB=ON L20 OR L37

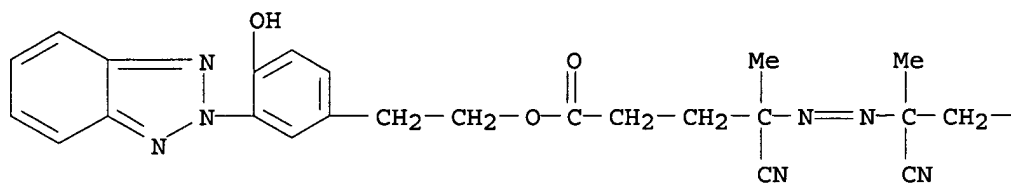
L39 1 SEA FILE=HCAPLUS ABB=ON L25

L40 7 SEA FILE=HCAPLUS ABB=ON L38 OR L39

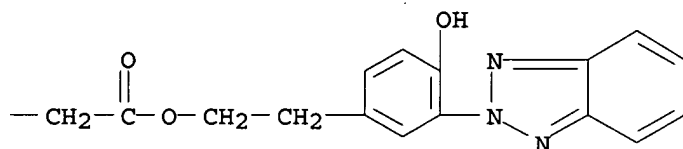
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L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
RN 726187-92-4 REGISTRY  
CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis[2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl] ester (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C40 H38 N10 O6  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL  
DT.CA Caplus document type: Patent  
RL.P Roles from patents: PREP (Preparation); USES (Uses)

PAGE 1-A



PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

ED Entered STN: 13 Aug 2004

1 hit from elected specie in CAPLUS

Reyes 10/743,254

15/02/2005

=> d ibib abs hitstr 17

L7 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN  
ACCESSION NUMBER: 2004:606345 HCAPLUS  
DOCUMENT NUMBER: 141:145753  
TITLE: Dual function UV-absorbers for ophthalmic lens materials  
INVENTOR(S): Schlueter, Douglas C.  
PATENT ASSIGNEE(S): Alcon, Inc., Switz.  
SOURCE: PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062371	A1	20040729	WO 2003-US39846	20031215
W: AU, CA, JP, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
US 2004157948	A1	20040812	US 2004-753254	20040108
PRIORITY APPLN. INFO.:			US 2003-438978P	P 20030109
OTHER SOURCE(S): MARPAT 141:145753				

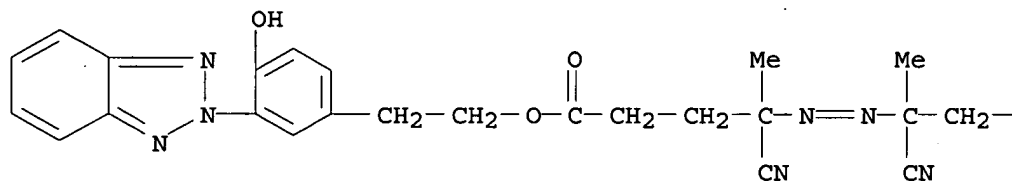
AB Disclosed are UV absorbers that contain a labile functional group capable of initiating free radical polymerization. For example, 4,4'-azobis(4-cyanopentanoic acid) was esterified with 3-(2H-benzotriazol-2-yl)-4-hydroxyphenethyl alc. to give an UV absorbing initiator. A scintillation vial was charged with 1,4-butanediol, 2-phenethyl acrylate, and 2-phenethyl methacrylate. The mixture was purged with N<sub>2</sub> and the prepared ester, then filtered, dispensed into a mold, and heated to obtain an ophthalmic lens.

IT 726187-92-4P  
RL: CAT (Catalyst use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(preparation of UV-absorbing polymerization initiators for ophthalmic lenses)

RN 726187-92-4 HCAPLUS

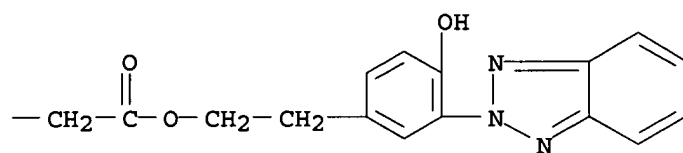
CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis[2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A





PAGE 1-B



=&gt; d ibib abs hitstr l38

L38 ANSWER 1 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:606345 HCAPLUS

DOCUMENT NUMBER: 141:145753

TITLE: Dual function UV-absorbers for  
**ophthalmic lens** materials

INVENTOR(S): Schlueter, Douglas C.

PATENT ASSIGNEE(S): Alcon, Inc., Switz.

SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004062371	A1	20040729	WO 2003-US39846	20031215
W: AU, CA, JP, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
US 2004157948	A1	20040812	US 2004-753254	20040108
PRIORITY APPLN. INFO.:			US 2003-438978P	P 20030109

OTHER SOURCE(S): MARPAT 141:145753

AB Disclosed are UV absorbers that contain a labile functional group capable of initiating free radical polymerization. For example, 4,4'-azobis(4-cyanopentanoic acid) was esterified with 3-(2H-benzotriazol-2-yl)-4-hydroxyphenethyl alc. to give an UV absorbing initiator. A scintillation vial was charged with 1,4-butanediol, 2-phenethyl acrylate, and 2-phenethyl methacrylate. The mixture was purged with N<sub>2</sub> and the prepared ester, then filtered, dispensed into a mold, and heated to obtain an **ophthalmic lens**.

IT 726187-92-4P

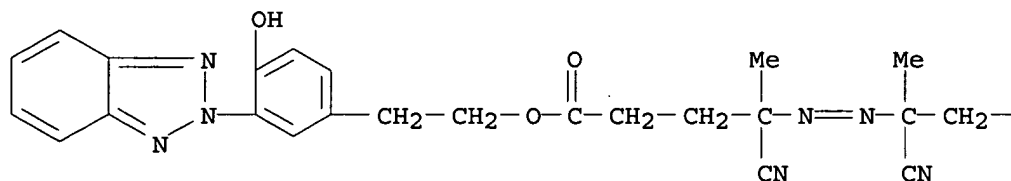
RL: CAT (Catalyst use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of UV-absorbing polymerization initiators for **ophthalmic lenses**)

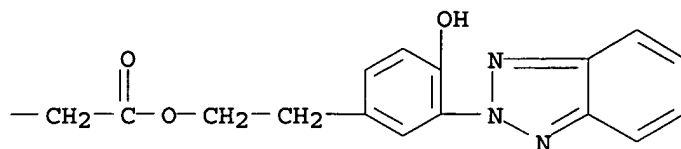
RN 726187-92-4 HCAPLUS

CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis[2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl] ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



=&gt; d ibib abs hitstr 138 2-7

L38 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:36796 HCAPLUS

DOCUMENT NUMBER: 137:33581

TITLE: Macro-azo-initiators having cinnamate end groups: synthesis, characterization and photopolymerization with 2-hydroxyethyl methacrylate

AUTHOR(S): Jantas, Roman; Wodka, Tadeusz; Janowska, Grazyna

CORPORATE SOURCE: Dep. of Phys. Chem. of Polymers, Tech. Univ. of Lodz, Lodz, 90-924, Pol.

SOURCE: Polimery (Warsaw, Poland) (2001), 46(11-12), 812-816

CODEN: POLIA4; ISSN: 0032-2725

PUBLISHER: Instytut Chemii Przemyslowej

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Three macro-azo-initiators (MAI, Mn = 1583, 4520, 8427) prepared (after [10]) by reacting poly(ethylene oxide) (PEO, Mn = 600, 2000, and 4000) with AIBN (2:1 by mole), were modified by esterification with cinnamoyl chloride to replace the original hydroxyl end-groups by the cinnamate end-groups. The MAI were used as initiators (2-10 weight % based on monomer weight) in photoinitiated (UV quartz tube, 37.5 W, distance 20 cm) polymerization of 2-hydroxyethyl methacrylate (HEMA) coupled with photocrosslinking (Scheme I). The structures suggested for the MAI oligomers were confirmed in terms of FTIR and <sup>1</sup>H-NMR spectra (Figs. 1, 2). Photocrosslinking was monitored at 282 nm; as the irradiation time was protracted, the absorbance fell (Fig. 3). For the three MAI examined, crosslinking percentage was studied in relation to irradiation time; crosslinking rates were highest within the first 2-4 min (Fig. 4); in 20 min, the cinnamate groups participated in 77-82% in the crosslinking (Fig. 4). The conversion of photosensitive groups (-CH=CH-) was not related to the M of MAI. A DSC thermogram for MAI-2000 (Fig. 5) exhibited an endotherm at 54°C (melting of PEO crystal phase) and a broad exotherm at 90-137° (decomposition of azo groups). Photocrosslinked PHEMA prepared with MAI-2000 having cinnamate end-groups attained the equilibrium degree of swelling (in deionized H<sub>2</sub>O) in 20 h (Fig. 6). The swelling degree rose as the amount of MAI used was raised, presumably on account of the rising content of polyoxide segments; it also rose as the M<sub>n</sub> of the modified MAI was increased (Fig. 7).

IT 436099-02-4P 436099-03-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)  
(macro-azo-initiators having cinnamate end groups: synthesis, characterization and photopolymn. with 2-hydroxyethyl methacrylate)

RN 436099-02-4 HCAPLUS

CN 2-Propenoic acid, 2-methyl-, 2-hydroxyethyl ester, polymer with  
α,α'-[azobis(2,2-dimethyl-1-oxo-2,1-ethanediyl)]bis[ω-  
[(1-oxo-3-phenyl-2-propenyl)oxy]poly(oxy-1,2-ethanediyl)] (9CI) (CA INDEX  
NAME)

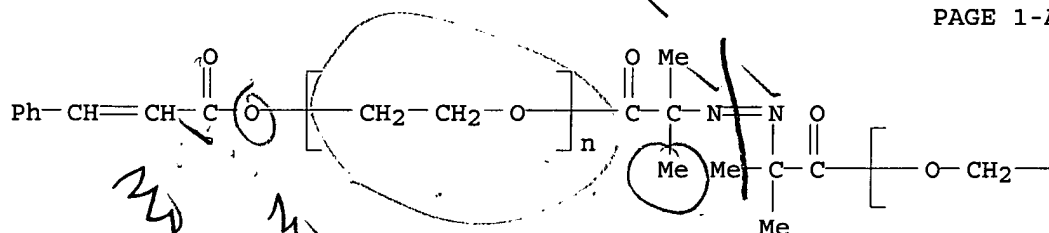
CM 1

CRN 436099-01-3

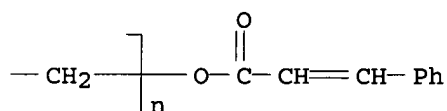
CMF (C2 H4 O)n (C2 H4 O)n C26 H26 N2 O6

CCI PMS

PAGE 1-A



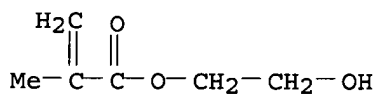
PAGE 1-B



CM 2

CRN 868-77-9

CMF C6 H10 O3



RN 436099-03-5 HCAPLUS

CN Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[azobis(2,2-dimethyl-1-oxo-2,1-ethanediyl)]bis[ $\omega$ -[(1-oxo-3-phenyl-2-propenyl)oxy]-, homopolymer (9CI) (CA INDEX NAME)

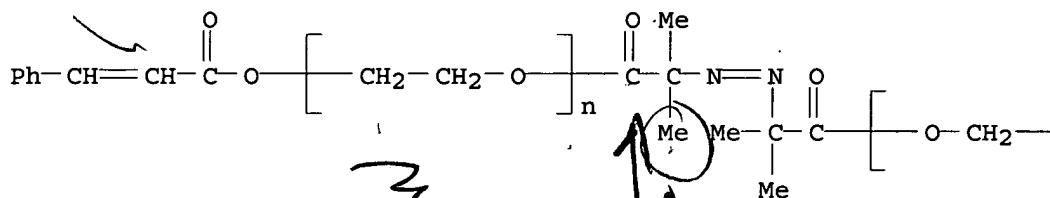
CM 1

CRN 436099-01-3

CMF (C2 H4 O)n (C2 H4 O)n C26 H26 N2 O6

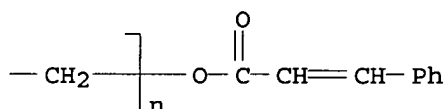
CCI PMS

PAGE 1-A



PAGE 1-B

#Startup



IT 436099-01-3P

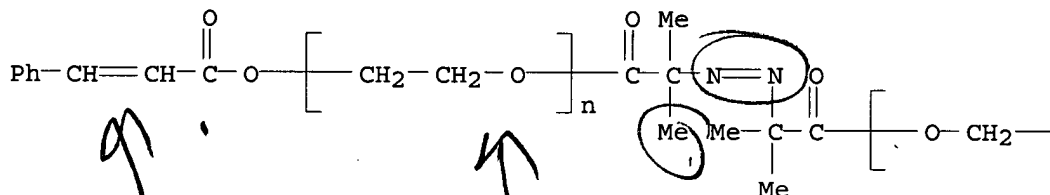
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(macro-azo-initiators having cinnamate end groups: synthesis, characterization and photopolymerization with 2-hydroxyethyl methacrylate)

RN 436099-01-3 HCAPLUS

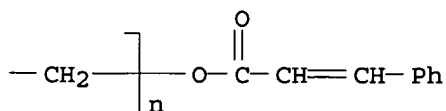
CN Poly(oxy-1,2-ethanediyl),  $\alpha,\alpha'$ -[azobis(2,2-dimethyl-1-oxo-2,1-ethanediyl)]bis[ $\omega$ -[(1-oxo-3-phenyl-2-propenyl)oxy]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

#Startup



REFERENCE COUNT:

15

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

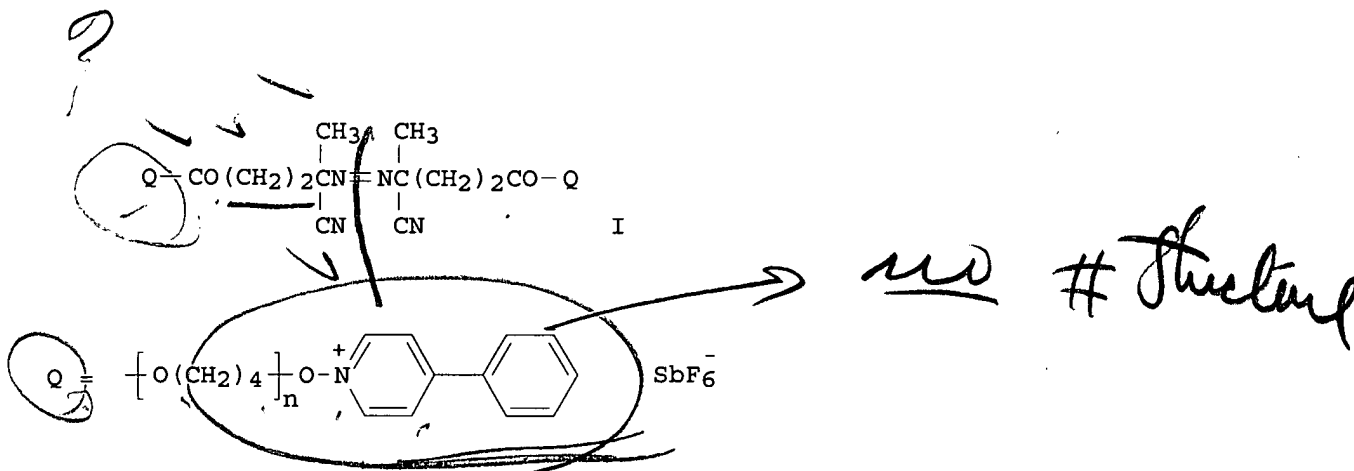
ACCESSION NUMBER: 1998:406235 HCAPLUS

DOCUMENT NUMBER: 129:82086

TITLE: Process for preparation of linear block copolymers  
 INVENTOR(S): Mehler, Christof; Gottschalk, Axel; Stadler, Reimund;  
 Denizligil, Selchuk  
 PATENT ASSIGNEE(S): BASF A.-G., Germany  
 SOURCE: Ger. Offen., 6 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19652312	A1	19980618	DE 1996-19652312	19961216
WO 9827127	A1	19980625	WO 1997-EP6987	19971212
W: CN, JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 944659	A1	19990929	EP 1997-953799	19971212
EP 944659	B1	20001018		
R: BE, DE, ES, FR, GB, IT, NL				
ES 2152109	T3	20010116	ES 1997-953799	19971212
PRIORITY APPLN. INFO.:			DE 1996-19652312	A 19961216
			WO 1997-EP6987	W 19971212

GI



AB Linear block polymers useful as polymer blend compatibilizers or impact modifiers are prepared by radical polymerization of monomers (C) with macroradical initiators having the formula YBXBY, in which X and Y are functional groups than can be selectively cleaved first with cleavage of X to give macroradicals containing the sequence YBC followed by radical polymerization of monomers (A) in the presence of this macroradical with cleavage of Y and the formation of linear block copolymers containing the sequence ABC. The block polymers have the sequences ABC, ABCBA, CBABC or ABCBABCBA. Thus, solns. of 4,4'-azobis-(4-cyanopentanoyl chloride) and AgSbF<sub>6</sub> in THF were mixed and polymerized to give living poly(THF) which was terminated by the addition of a solution of 4-phenylpyridine-N-oxide in dichloromethane. This polymer, having the structure I, was dissolved in styrene and the solution was polymerized to give 4-phenylpyridine-N-oxide-terminated poly(THF)-block-polystyrene (II). This macroradical initiator was activated with UV light in the presence of Me methacrylate to form a multiblock copolymer by radical polymerization

IT 209395-02-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(macroinitiator; process for preparation of linear block copolymers by radical polymerization using macroradical initiators)

RN 209395-02-8 HCAPLUS

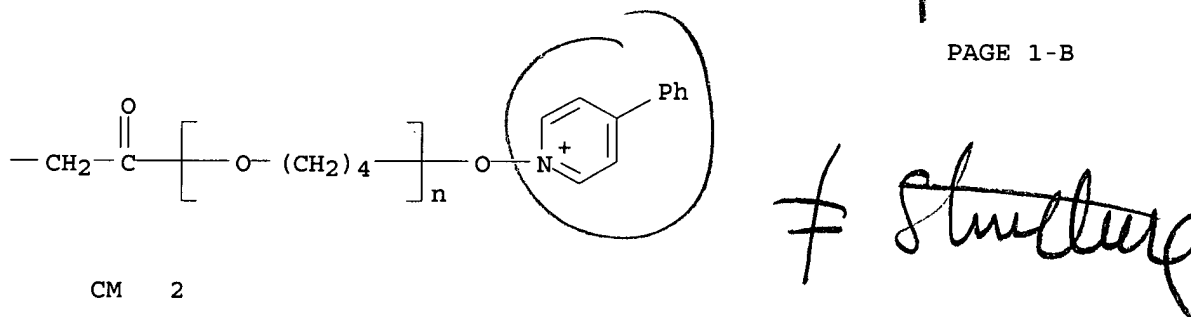
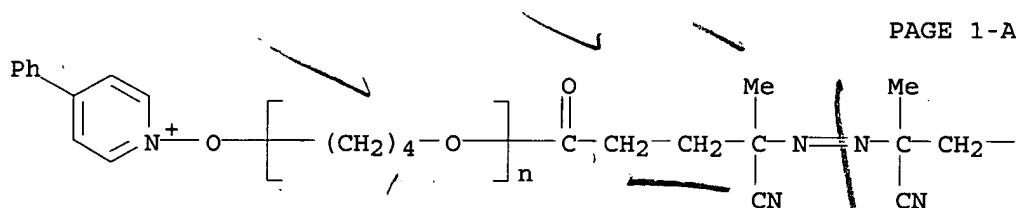
CN Antimonate(1-), hexafluoro-, (OC-6-11)-,  $\alpha, \alpha'$ -[azobis(4-cyano-4-methyl-1-oxo-4,1-butanediyl)]bis[ $\omega$ -[(4-phenylpyridinio)oxy]poly(oxy-1,4-butanediyl)] (2:1) (9CI) (CA INDEX NAME)

CM 1

CRN 209395-01-7

CMF (C4 H8 O)n (C4 H8 O)n C34 H32 N6 O4

CCI PMS

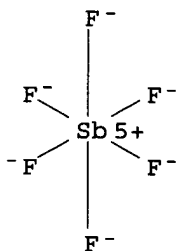


CM 2

CRN 17111-95-4

CMF F6 Sb

CCI CCS



L38 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:654639 HCAPLUS

DOCUMENT NUMBER: 123:33826

TITLE: Photoinduced Synthesis of Amino-Functional Telechelics

AUTHOR(S): Onen, Aysen; Denizligil, Selcuk; Yagci, Yusuf

CORPORATE SOURCE: Science Faculty, Istanbul Technical University,

SOURCE: Maslak, 80626, Turk.  
 Macromolecules (1995), 28(15), 5375-7  
 CODEN: MAMOBX; ISSN: 0024-9297  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Amino-functional telechelics were prepared via photoinduced process. Free radical polymerization of styrene using acyloxyimino azo-initiator yielded polymers with acyloxyimino end groups. Photolysis of these polymers in the presence of **benzophenone** and subsequent hydrolysis gave amino-functional telechelics. Amino-functionality was evidenced by polyamidation with adipoyl chloride.

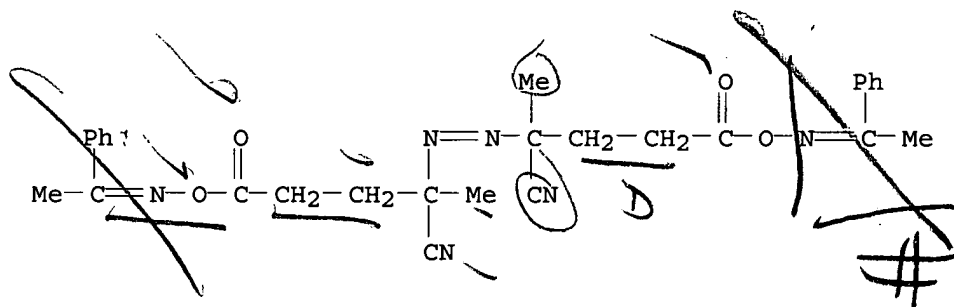
IT 163526-94-1

RL: CAT (Catalyst use); RCT (Reactant); RACT (Reactant or reagent); USES (Uses)

(functional initiator; photoinduced synthesis of amino-functional telechelic polystyrene)

RN 163526-94-1 HCAPLUS

CN Pentanenitrile, 2,2'-azobis[2-methyl-5-oxo-5-[[[(1-phenylethylidene)amino]oxy]- (9CI) (CA INDEX NAME)



L38 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:541320 HCAPLUS

DOCUMENT NUMBER: 122:291784

TITLE: Manufacture of fluorine-containing block copolymers

INVENTOR(S): Tokuda, Hiroyuki; Rainaa, Buruno Furingusu

PATENT ASSIGNEE(S): Dainippon Ink & Chemicals, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 24 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

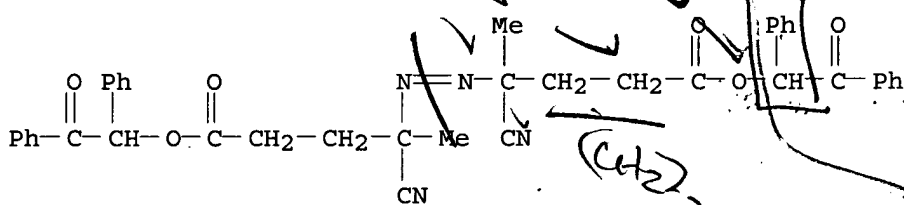
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06279555	A2	19941004	JP 1993-69943	19930329
JP 3346486	B2	20021118		

PRIORITY APPLN. INFO.: JP 1993-69943 19930329

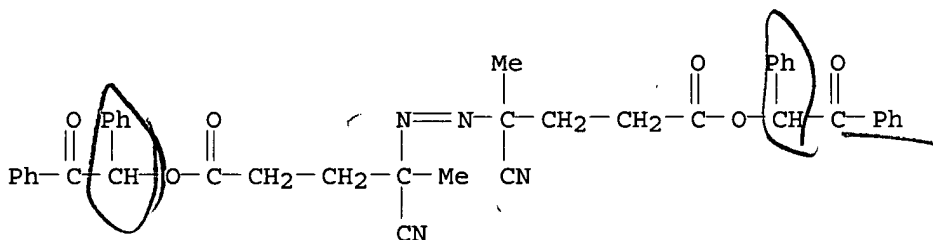
AB Polymers, consisting of domains made from fluorine-containing vinyl compds. and other monomers and domains of other polymers selected from polyurethanes, polyureas, polysiloxanes, and acrylic polymers, are manufactured by polymerizing fluorine-containing vinyl compds. and other monomers with a preformed polymer with 1 or 2 terminal groups which initiate a photo polymerization upon irradiating with 200-450 nm light. A block copolymer was manufactured by polymerizing 1H,1H,2H,2H-heptadecafluorodecyl acrylate with dipropylene glycol-hexamethylene diisocyanate copolymer, which was terminated by Darocur 2959, by UV irradiation. The polymer had number-average mol. weight 18,200.



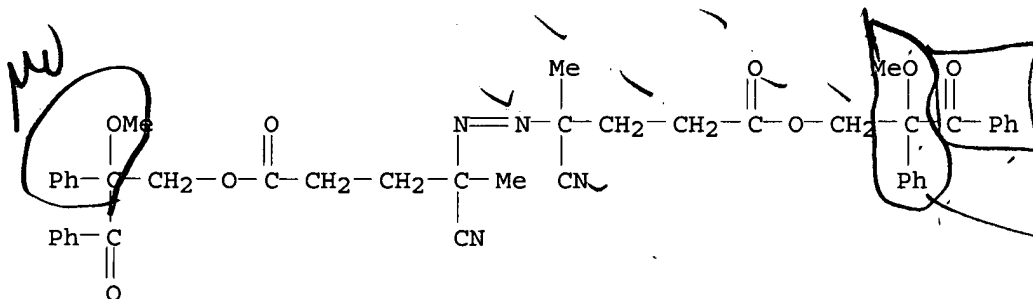
IT 131301-01-4DP, reaction products Me methacrylate homopolymer  
 131301-01-4P 131301-13-8DP, reaction products Me  
 methacrylate homopolymer 131301-13-8P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (manufacture of fluorine-containing block copolymers)  
 RN 131301-01-4 HCAPLUS  
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis(2-oxo-1,2-diphenylethyl) ester  
 (9CI) (CA INDEX NAME)



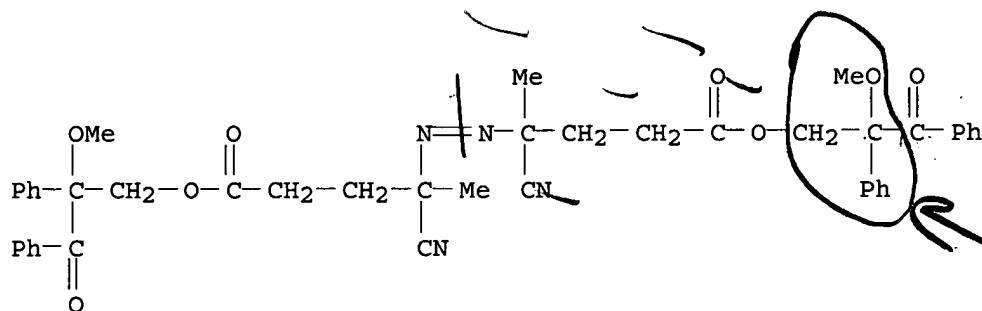
RN 131301-01-4 HCAPLUS  
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis(2-oxo-1,2-diphenylethyl) ester  
 (9CI) (CA INDEX NAME)



RN 131301-13-8 HCAPLUS  
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis(2-methoxy-3-oxo-2,3-diphenylpropyl) ester (9CI) (CA INDEX NAME)



RN 131301-13-8 HCAPLUS  
 CN Pentanoic acid, 4,4'-azobis[4-cyano-, bis(2-methoxy-3-oxo-2,3-diphenylpropyl) ester (9CI) (CA INDEX NAME)



L38 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1985:79363 HCAPLUS

DOCUMENT NUMBER: 102:79363

TITLE: Bifunctional initiators. 7. Acrylamide polymerization with 4,4'-azobis(4-cyanovaleryl) bis(m-chlorobenzoyl) diperoxide as initiator

AUTHOR(S): Sik, Kim Gyu; Dumitriu, Severian; Comanita, Eugenia; Simionescu, Cristofor

CORPORATE SOURCE: Dep. Org. Macromol. Chem., Polytech. Inst. Jassy, Iasi, R-6600, Rom.

SOURCE: Polymer Bulletin (Berlin, Germany) (1984), 12(5), 419-25

CODEN: POBUDR; ISSN: 0170-0839

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Acrylamide [79-06-1] was polymerized by both thermolysis and photolysis of [3-ClC6H4C(O)OO(O)C(CH2)2C(CN)MeN:]2 (I) [94789-84-1] as initiator. The photolysis with monochromatic (366 nm) UV irradiation gave a polymer [9003-05-8] of maximum peroxy group content, the polymerization being second order. Et3N [121-44-8] acted as an activator of the

peroxy group decomposition and as an inhibitor for the radicals in the system. The sequential character of I was proved by a 2-stage polymerization, in which polymers were obtained with mol. wts. twice those of polymers obtained in a 1-stage process.

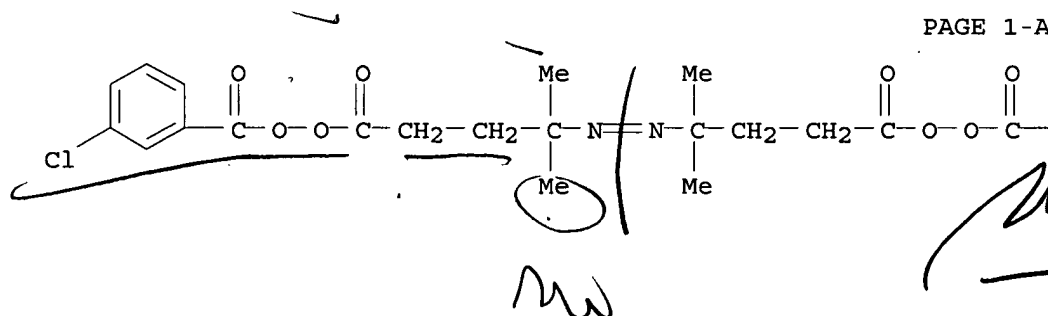
IT 94789-84-1

RL: CAT (Catalyst use); USES (Uses)

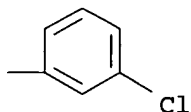
(catalysts, for photochem. and thermal radical polymerization of acrylamide)

RN 94789-84-1 HCAPLUS

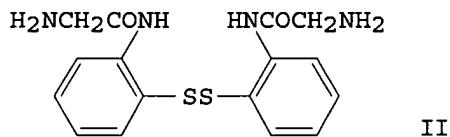
CN Diazene, bis[4-[(3-chlorobenzoyl)dioxy]-1,1-dimethyl-4-oxobutyl]- (9CI) (CA INDEX NAME)



PAGE 1-B



L38 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2005 ACS on STN  
 ACCESSION NUMBER: 1982:143461 HCAPLUS  
 DOCUMENT NUMBER: 96:143461  
 TITLE: Synthesis and study of block copolymers formed on the poly( $\gamma$ -benzyl glutamate) initiator containing nitrogen:nitrogen and sulfur-sulfur bonds  
 AUTHOR(S): Rudkovskaya, G. D.; Ovsyannikova, L. A.; Baranovskaya, I. A.; Shabsel's, B. M.; Ivanova, R. A.; Ul'yanova, N. N.; Vlasov, G. P.  
 CORPORATE SOURCE: Inst. Vysokomol. Soedin., Leningrad, USSR  
 SOURCE: Vysokomolekulyarnye Soedineniya, Seriya B: Kratkie Soobshcheniya (1981), 23(11), 842-5  
 CODEN: VYSBAI; ISSN: 0507-5483  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 GI



*nope!*

AB Peptides containing internal SS or N:N bonds were prepared by initiating the polymm of 5-benzyl L-glutamate N-carboxyanhydride [33043-68-4] with (2-H<sub>2</sub>NCH<sub>2</sub>CONHC<sub>6</sub>H<sub>4</sub>S)<sub>2</sub> [71074-56-1] or H<sub>2</sub>NNHCOC(Me)<sub>2</sub>N:NC(Me)<sub>2</sub>CONHNH<sub>2</sub> [19341-80-1], resp. Irradiation of the peptides with UV light at elevated temps. in the presence of a 100-fold excess of 2,2'-dithiodianiline [1141-88-4] or AIBN [78-67-1] decreased their intrinsic viscosity by 30-50% by cleaving the SS or N:N bonds and recombination of radicals with those from added low-mol weight compds. Similar treatment of the peptides in the presence of Me methacrylate gave block copolymers in addition to homopolymer.

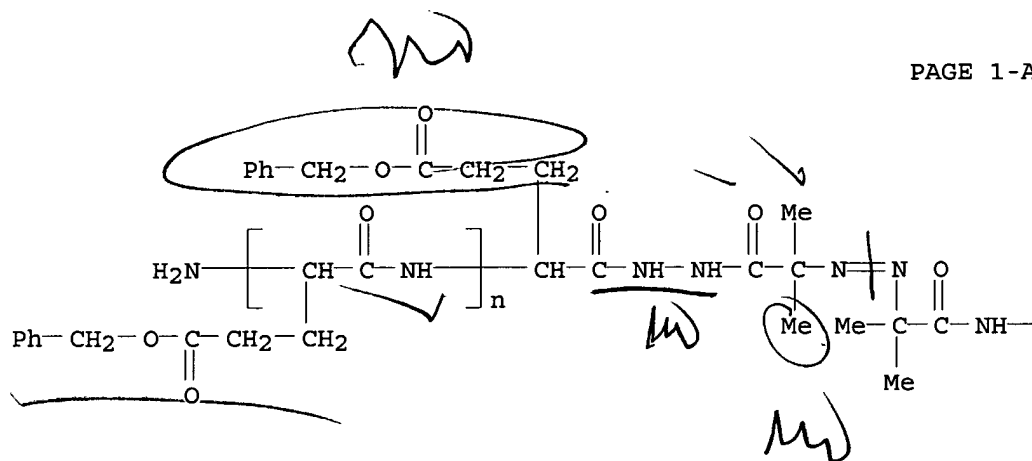
IT 81192-63-4

RL: RCT (Reactant); RACT (Reactant or reagent)  
 (photolysis of)

RN 81192-63-4 HCAPLUS

CN Poly[imino[1-oxo-2-[3-oxo-3-(phenylmethoxy)propyl]-1,2-ethanediyl]],  
 $\alpha, \alpha'$ -[azobis[(2,2-dimethyl-1-oxo-2,1-ethanediyl)hydrazo[2-oxo-1-[3-oxo-2-(phenylmethoxy)propyl]-2,1-ethanediyl]]]bis[ $\omega$ -amino-,  
 (all-S)- (9CI) (CA INDEX NAME)

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